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COMPUTATIONAL EXPOSURE SCIENTIST

Job Title: COMPUTATIONAL EXPOSURE SCIENTIST

Agency: Environmental Protection Agency

Job Announcement Number: RTP-ORD-42-2014-0004

SALARY RANGE: \$153,885.00 to \$200,000.00 / Per Year

OPEN PERIOD: Monday, July 7, 2014 to Friday, August 15, 2014

SERIES & GRADE: AD-0101/0401/1301/1520/1550-00

POSITION INFORMATION: Full-time - This is a term position of up to 5 years which may be renewed

DUTY LOCATIONS: 1 vacancy - Durham, NC, US

WHO MAY APPLY: Applications will be accepted from U.S. citizens and permanent residents as allowed by appropriations and statute.

SECURITY CLEARANCE: Public Trust - Background Investigation

SUPERVISORY STATUS: No

JOB SUMMARY:

About the Agency

The Office of Research and Development (ORD) is seeking an internationally recognized science leader for the position of Computational Exposure Scientist in the National Exposure Research Laboratory (NERL) in Durham (Research Triangle Park), North Carolina. Learn more about NERL at <http://www2.epa.gov/aboutepa/about-office-research-and-development-ord>.

ORD is filling this position using EPA's Title 42 Authority, which offers up to 5-year renewable term appointments at highly competitive, market-based salaries. The salary may be up to \$200,000 per year, dependent upon qualifications, experience and other factors (e.g., current salary). The position is part of a larger EPA effort to use state-of-the-science approaches and technologies in its mission of protecting human health and the environment.

SPECIAL NOTE: The position is subject to the Ethics in Government Act of 1978. Appointment will be subject to applicant's completion of a background security investigation and favorable adjudication. Also, appointment will be subject to applicant's completion of a financial disclosure process which includes completing an OGE Form 278, Public Financial Disclosure Report.

RELOCATION AUTHORIZED

- Yes
- If you are selected, travel, transportation, and relocation expenses will be paid by EPA according to applicable rules. You can read more about these expenses on this web site: <http://www.relocatefeds.gov>

KEY REQUIREMENTS

DUTIES:

The Office of Research and Development (ORD), National Exposure Research Laboratory (NERL) is responsible for carrying out EPA's mission to protect human health and the environment by developing and applying innovations in exposure science. NERL provides scientific

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leadership, understanding, and tools necessary to quantify exposure for humans and ecosystems.

NERL is leading the development of approaches to exposure science that take advantage of new information and monitoring technology and large new sources of data to improve the rate and scope of exposure assessments. The incumbent strengthens a critical capability in the area of computational exposure science through the conduct and leadership of a research program that enhances coordination, collaboration and communication within NERL and across ORD Laboratories and Centers.

The incumbent develops and implements complex computational solutions that facilitate the use of "big data" (from traditional and non-traditional sources) to develop an understanding of the factors that lead to exposure and to develop rapid exposure and dose assessments for chemicals.

The incumbent utilizes knowledge of advanced informatics methods, tools and resources in chemistry, environmental science, exposure science, and behavioral science to interpret and understand the importance of various data sets relative to characterizing human and ecological exposure. This includes:

Providing expertise to research teams on how to structure research projects and capture data of sufficient quality and quantity into databases that facilitate integration and interpretation of highly-dimensional data.

Developing, validating and implementing novel computational algorithms, data mining of multiple relational databases, reading and critically evaluating the relevant scientific literature, and preparing oral and written reports and presentations.

Providing guidance, training, support and resources to scientists within NERL and throughout EPA in the proper use of state-of-the-science informatics tools and recommending policies and procedures for the acquisition, storage, retrieval and analysis of exposure information across ORD.

Serving as a senior spokesperson/representative for ORD in the area of computational exposure science, including participation on workgroups within and outside EPA.

Seeking opportunities to help guide the research agenda of outside research organizations with similar interests and defining collaborative opportunities.

QUALIFICATIONS REQUIRED:

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If selected for this position, you will provide leadership across ORD in the activities stated previously.

To meet the eligibility criteria, you must have a doctoral degree in a scientific discipline related to NERL's exposure research and substantive specialized experience in computational exposure science. You should be nationally and internationally recognized as an authority and leader in computational exposure science. You should have received honors and awards from major national and/or international organizations for your accomplishments and be sought after as an advisor and expert on scientific and technological programs relevant to ORD's and NERL's mission. As evidence of your qualifications and scientific contributions, you may also: 1) hold, or have held, elected position(s) in scientific societies; 2) have served on journal editorial boards; 3) have received an extensive number of invitations to write and speak on issues related to environmental exposures and public health outcomes; 4) have written numerous book chapters and peer reviewed publications in high quality journals; 5) have served in leadership roles on numerous task forces/committees; and/or 6) have been an advisor to national and international institutions/governments.

Appointment will be subject to your completion of a background security investigation and favorable adjudication.

HOW YOU WILL BE EVALUATED:

You will be evaluated on the basis of meeting the qualifications stated previously. In determining the degree to which candidates possess the required or desired knowledge, skills, and abilities, an evaluation panel will consider related experience, education, training, awards, and professional references.

To preview questions please [click here](#).

BENEFITS:

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You can review our benefits at: https://help.usajobs.gov/index.php/Pay_and_Benefits

Join EPA in protecting human health and the environment and enjoy many work life quality options! Working for the EPA offers you a comprehensive benefits package that includes, in part, paid vacation, sick leave, holidays, life insurance, health benefits, and participation in the Federal Employees Retirement System. To learn more about us, visit [Life and Careers at EPA](#).

OTHER INFORMATION:

This information is used to determine your qualifications for employment. The use of this information is authorized under Title 5 USC, Sections 3302 and 3361.

Non-U.S. citizens who are U.S. permanent residents may be appointed as allowed by appropriations and statute and must be seeking citizenship as outlined in 8 U.S.C. 1324b(a)(3)(B). For more information on Federal employment of non-U.S. citizens, go to https://help.usajobs.gov/index.php/Employment_of_Non-citizens

EPA participates in e-Verify. E-Verify is an Internet based system operated by the Department of Homeland Security (DHS) in partnership with the Social Security Administration (SSA) that enables participating employers to electronically verify the employment eligibility of their newly hired employees. For additional information http://epa.gov/ohr/ezhire/vacancy_requirements.htm.

HOW TO APPLY:

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Send the following information:

- A cover letter (1-2 pages), including how your experience relates to the duties of the position;
- Curriculum vitae;
- The names and contact information for three references;
- Citizenship status;
- Compensation requirements;
- How you heard about this vacancy.

Please cite announcement number **RTP-ORD-42-2014-0004** in your application. Applications should be sent via email to title42@epa.gov or mailed to the attention of Ms. Dorothy Carr, U.S. EPA, HRMD, MD-C639-02, 109 TW Alexander Drive, Research Triangle Park, NC 27711.

Applications must be received by 11:59 p.m. ET on August 15, 2014, in order to be considered. Applications will not be considered if submitted via USAJOBS.

REQUIRED DOCUMENTS:

Electronic submission of the application materials referenced above is encouraged. Applications sent via email must be submitted in a format readable by this office, such as MS Word, portable

document format (PDF), rich text format (RTF), or plain text. Use of any format we cannot read may invalidate your application.

AGENCY CONTACT INFO:

Dorothy Carr

Phone: 800-433-9633

Fax: 919-541-0160

Email: carr.dorothy@epa.gov

Agency Information:

Environmental Protection Agency

Human Resources Management Division

109 T.W. Alexander Drive, MD C639-02

Durham, NC

27711

US

Fax: 919-541-0160

WHAT TO EXPECT NEXT:

For additional information, Ms. Carr can also be reached at (800) 433-9633. Technical questions pertaining to this vacancy may be addressed to Tim Watkins at (919) 541-2107 or via email to watkins.tim@epa.gov.

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U.S. ENVIRONMENTAL PROTECTION AGENCY

Protect the Environment: Work at EPA

Vacancy Questions Preview



Vacancy Questions Preview

Grade: All Grades

Please follow the instructions in the "How to Apply" section to submit your application for this opportunity. If you fail to follow the instructions in the "How to Apply" section, your application will not receive consideration.

[View Vacancy Details](#)

Questions, Comments, or Feedback can be directed to HRPayHelp@epa.gov

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